

ABSTRACT

Detecting preambles of data packets

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Fast detection of a selected portion of a data packet (e.g. the preamble of a Bluetooth
5 data packet) is accomplished by defining a reference signal waveform conforming to an
expected waveform representing a signal modulated in accordance with the selected portion
of a data packet. A waveform representing a received data signal containing a data packet
with the selected portion is derived, and the reference signal waveform is correlated with this
derived waveform to produce a correlation result. This correlation result is used to identify
10 the selected portion in the received data signal.